

					OIPE		
DECL	ARATION ANI	POWER	Attorney Docket No.	MIT-103	FEB 0 7 2000 #		
OF ATTORNEY FOR UTILITY			First Named Inventor	Kawasaki	TEAT & TOWN COMPANY		
OR DESIGN		COMPLETE IF KNOWN					
PA	TENT APPLICA	ATION	Application Serial Number	09/422,999			
Declara	tion 🔀 Declara	ation	Filing Date	10/22/99			
Submitte	ed with Submitte	d after Initial	Group Art Unit	1643			
Initial F	ling Filing (so	urcharge	Examiner Name	Not yet assigne	ed		
	37 CFR	1.16(e) required)					

								
As a below named inventor, I	hereby declar	re that:						
My residence, post office addre	ess, and citizen	ship are as stated	below next to my name.					
I believe I am the original, first names are listed below) of the s	and sole inver	ntor (if only one rowhich is claimed	name is listed below) or an analog and for which a patent is so	original, first and ought on the inver	joint inventor (if plural ntion entitled:			
	Genes Integrating Signal Transduction Pathways							
<u> </u>		(Title	of the Invention)					
the specification of which								
is attached hereto OR								
	10/22/9	99	as United States Application	on Serial Number	or PCT International			
Application Number 09/4	122,999	and was ame	nded on (MM/DD/YYYY)		(if applicable).			
	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.							
I acknowledge the duty to discl	ose informatio	n which is mater	ial to patentability as define	ed in 37 CFR 1.56).			
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.								
Prior Foreign Application			Foreign Filing Date	Priority	Certified Copy Attached?			
Number(s)	Co	untry	(MM/DD/YYYY)	Not Claimed	YES NO			
			a supplemental priority dat					
I hereby claim the benefit unde				ation(s) listed belo	ow.			
Application Serial Num	ber(s)	Filing D	ate (MM/DD/YYYY)					
60/105,507			10/23/98	serial nu	nal provisional application mbers are listed on a ental priority data sheet hereto.			

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09422,999

Page 2 of 3



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or

	t the following registered practitioner	a supplemental priority data sheet attac	hed hereto.
As a named inventor, I hereby appoint	t the following registered practitioner	البائية الدائد	
	OR	(s) name/registration number listed	Place Customer Number Bar Code Label Here
1	Registration	<u> </u>	Registration
Name	Number	Name	Number
Steven M. Bauer	31,481	Thomas C. Meyers	36,989
John V. Bianco	36,748	Joseph B. Milstein	42,897
Isabelle A.S. Blundell	43,321	David G. Miranda	42,898
Maureen A. Bresnahan	P-44,559	Ronda P. Moore	44,244
Michael H. Brodowski	41,640	Edmund R. Pitcher	27,829
Jennifer A. Camacho	43,526	Dianne M. Rees	45,281
Joseph A. Capraro, Jr.	36,471	Kurt Rauschenbach	40,137
John J. Cotter	38,116	Michael A. Rodriguez	41,274
Jennifer L. Dupre	41,722	R. Stephen Rosenholm	P-45,283
John V. Forcier	42,545	Michael J. Schmelzer	43,093
Michael Giannetta	42,574	J. Scott Southworth	39,382
Duncan A. Greenhalgh	38,678	Christopher W. Stamos	35,370
William G. Guerin	41,047	Joseph P. Sullivan	P-45,349
Ira Heffan	41,059	Robert J. Tosti	35,393
Danielle L. Herritt	43,670	Thomas A. Turano	35,722
Elizabeth E. Kim	43,334 D. 44,830	Michael J. Twomey	38,349
Mi Kim	P-44,830	Christine C. Vito	39,061
Douglas J. Kline	35,574	Patrick R.H. Waller	41,418
John D. Lanza	40,060	Yin P. Zhang	44,372
Timothy P. Linkkila	40,702		1
Kurt W. Lockwood Marianne McLaughlin	40,704 42,870	1	1

Declaration and Power of Attorney tor Utility or Design Patent Application Serial No.:

Page 3 of 3



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First		A petition has been filed for this unsigned inventor						
Given Na	me (first and mide	dle [if any])			F	amily Name o	r Surnam	e
Hiroaki			ļ	Kawasaki				
Inventor's Signature	Hwad			Date		/Jan. 2000		
Street Address	3-20-2, Aoba			Citizenship		Japanese		
	City	Higashi-Ku	State	Fukuoka	Zip		Country	Japan
Post Office Address								
	City	 	State		Zip		Country	
Additional inventor	rs are being named	i on the sur	plementa	al Additional I	nventor(s)	sheet(s) attac	ched here	0.
Name of Additional Jo	oint Inventor, if a	iny:		A petition	has been	filed for this	unsigned	inventor
Given N	ame (first and mic	idle [if any])		Family Name or Surname				
Ann				Graybiel				
Inventor's Signature					Date			
Street Address	Boyce Farm Ro	oad			Citizenshi		p US	
	City	Lincoln	State	MA	Zip	01773	Country	USA
Post Office Address								
	City		State		Zip		Country	
Name of Additional Jo	oint Inventor, if a	ıny:		A petition has been filed for this unsigned inventor				
Given Na	me (first and mid	dle [if any])		Family Name or Surname				
David				Housman				
Inventor's Signature						Date		
Street Address	64 Homer Stree	et				Citizenshi	p US	
	City	Newton	State	MA	Zip	02458	Country	USA
Post Office Address								
	City		State		Zip		Country	

DECLARAT	ION AND POV	VER Atto	rney Docket No.	MIT-103	TER .		
OF ATTORN	EY FOR UTIL	ITY First	Named Inventor	Kawasaki	700		
OR	DESIGN		COMPLETE IF KNOWN PADEMARK				
PATENT	APPLICATIO	N App	lication Serial Number				
☐ Declaration	Declaration	Filin	g Date	10/22/99			
Submitted with	Submitted after I	nitial Grou	ıp Art Unit	1643			
Initial Filing	Filing (surcharge	Exar	miner Name	Not yet assigned			
37 CFR 1.16(e) required)							
As a below named in	ventor, I hereby dec	lare that:		-			
My residence, post of	fice address, and citiz	enship are as state	ed below next to my nan	e.			
I believe I am the orig	ginal, first and sole inv	entor (if only on	e name is listed below) o	r an original, first and	joint inventor (if pl		
names are listed below	v) of the subject matte	r which is claime	ed and for which a patent	is sought on the inve	ntion entitled:		
		Genes Integrating	tegrating Signal Transduction Pathways				
		(Tit	le of the Invention)				
the specification of wl							
is attached b							
was filed on (MM/DD/YYYY)		2/99	as United States Application Serial Number or PCT International				
Application Number	09/422,999	and was an	nended on (MM/DD/YYY	Y)	(if applicable).		
			nts of the above identifie	d specification, includ	ing the claims, as a		
by any amendment sp							
			erial to patentability as d				
I hereby claim foreign certificate, or 365(a) (i priority benefits und of any PCT internation	er 35 U.S.C. 1190	(a)-(d) or 365(b) of any fl hich designated at least of	oreign application(s) in a country other than	tor patent or invented the United States of		
America, listed below	and have also identif	ied below, by che	ecking the box, any forei	gn application for pate	ent or inventor's cer		
Prior Foreign Applic		ing a filing date i	Foreign Filing Da		Certified Copy A		
Titol Toloiburthum		Country	(MM/DD/YYYY		YES		
Number(s)				1 7	1 17		
				1	1 7		
		<u> </u>					
Number(s)							
Number(s) Additional f	foreign application nu	mbers are listed (on a supplemental priorit				
Number(s) Additional for the large state of the la	foreign application nu nefit under 35 U.S.C.	imbers are listed o	ited States provisional ap				
Number(s) Additional for the large state of the la	foreign application nu	imbers are listed o		plication(s) listed bel	ow. nal provisional appli		
Additional for the personal formula in the personal fo	foreign application nu nefit under 35 U.S.C. erial Number(s)	imbers are listed o	ited States provisional ap Date (MM/DD/YYYY)	Addition serial nu			

Declaration and Power of Atto

y for Utility or Design Patent Application

Serial No.: 09422,999

Page 2 of 3



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United

U.S. Parent Application or PCT Parent Serial Number		Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
☐ Additional U.S. or PCT intern	ational application numbers are listed or	n a supplemental priority data sheet atta	ched hereto.
	oint the following registered practitione herewith: Customer Number OR Registered practitioner	rs to prosecute this application and to tr ——————————————————————————————————	Place Customer Number Bar Code Label Here
	Registration	(3) name registration number fisted	Registration
Name	Number	Name	Number
Steven M. Bauer	31,481	Thomas C. Meyers	36,989
John V. Bianco	36,748	Joseph B. Milstein	42,897
Isabelle A.S. Blundell	43,321	David G. Miranda	42,898
Maureen A. Bresnahan	P-44,559	Ronda P. Moore	44,244
Michael H. Brodowski	41,640	Edmund R. Pitcher	27,829
Jennifer A. Camacho	43,526	Dianne M. Rees	45,281
Joseph A. Capraro, Jr.	36,471	Kurt Rauschenbach	40,137
John J. Cotter	38,116	Michael A. Rodriguez	41,274
Jennifer L. Dupre	41,722	R. Stephen Rosenholm	P-45,283
John V. Forcier	42,545	Michael J. Schmelzer	43,093
Michael Giannetta	42,574	J. Scott Southworth	39,382
Duncan A. Greenhalgh	38,678	Christopher W. Stamos	35,370
William G. Guerin	41,047	Joseph P. Sullivan	P-45,349
Ira Heffan	41,059	Robert J. Tosti	35,393
Danielle L. Herritt	43,670	Thomas A. Turano	35,722
Elizabeth E. Kim	43,334	Michael J. Twomey	38,349
Mi Kim	P-44,830	Christine C. Vito	39,061
Douglas J. Kline	35,574	Patrick R.H. Waller	41,418
John D. Lanza	40,060	Yin P. Zhang	44,372
Timothy P. Linkkila	40,702		
Kurt W. Lockwood	40,704		
Marianne McLaughlin	42,870		

Fax No.: (617) 248-7100

Declaration and Power of Attorney for Utility or Design Patent Application Serial No.:

Page 3 of 3



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First	Inventor:		A	etition has be	en filed fo	r this unsigr	ed inventor			
Given Na	me (first and mid	dle [if any])	· · · · · · · · · · · · · · · · · · ·	Family Name or Surname						
Hiroaki	<u> </u>			Kawasaki						
Inventor's Signature					Date					
Street Address	3-20-2, Aoba					Citizenship	Japa	nese		
	City	Higashi-Ku	State	Fukuoka	Zip		Country	Japan		
Post Office Address					<u>. </u>					
	City		State	T	Zip		Country			
Additional inventor	rs are being name	d on the supp	lemental	Additional Ir	ventor(s)	sheet(s) atta	ched hereto.			
Name of Additional Jo	oint Inventor, if a	any:	[A petition	has been fi	iled for this	unsigned in	ventor		
Given N	ame (first and mic	ddle [if any])		Family Name or Surname						
Ann					Graybiel					
Inventor's Signature	An-h	housing	L	Date I.19. 2000						
Street Address	Boyce Farm Ro	oad				Citizenshi				
	City	Lincoln	State	MA	Zip	01773	Country	USA		
Post Office Address										
	City		State		Zip		Country			
Name of Additional Jo	oint Inventor, if	any:	.	A petition	on has beer	n filed for th	is unsigned	inventor		
Given Na	me (first and mid	dle [if any])		Family Name or Surname						
David				Housman						
Inventor's Signature			·			Date				
Street Address	64 Homer Stree	et				Citizenshi	p US			
	City	Newton	State	MA	Zip	02458	Country	USA		
Post Office Address				•						
	City		State		Zip		Country			

			FEB 0 7 2000 g				
DECLARAT	ION AND POWER	Attorney Docket No.	MIT-103				
OF ATTORNEY FOR UTILITY		First Named Inventor	Kawasaki				
OR DESIGN		COMPLETE IF KNOWN					
PATENT	APPLICATION	Application Serial Number	09/422,999				
☐ Declaration	□ Declaration	Filing Date	10/22/99				
Submitted with	Submitted after Initial	Group Art Unit	1643				
Initial Filing	Filing (surcharge	Examiner Name	Not yet assigned				
	37 CFR 1.16(e) required)						

As a belo	w named inventor, I	hereby declar	e that:					
My reside	nce, post office addres	ss, and citizens	ship are as stated	below next to my name.				
I believe I names are	believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural ames are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
	Genes Integrating Signal Transduction Pathways							
L	(Title of the Invention)							
the specifi	ication of which							
	is attached hereto OR							
(MM/DD/Y	was filed on (YYY)	10/22/9	9	as United States Application	n Serial Number	or PCT International		
Application	n Number 09/4	22,999	and was amer	nded on (MM/DD/YYYY)		(if applicable).		
	tate that I have review nendment specifically			s of the above identified spe	cification, includ	ing the claims, as amended		
I acknowl	edge the duty to disclo	se information	n which is mater	ial to patentability as define	d in 37 CFR 1.56), 		
certificate America,	, or 365(a) of any PCT listed below and have	international also identified	application which below, by check	o-(d) or 365(b) of any foreign the designated at least one co- king the box, any foreign ap- fore that of the application of	ountry other than plication for pate	the United States of ent or inventor's certificate,		
Prior For	eign Application	 		Foreign Filing Date	Priority	Certified Copy Attached?		
	Number(s)	Co	untry	(MM/DD/YYYY)	Not Claimed	YES NO		
				a supplemental priority dat				
				d States provisional applica	tion(s) listed belo	ow.		
Ap	plication Serial Num 60/105,507	per(s)	Filing D	ate (MM/DD/YYYY) 10/23/98	Addition	nal provisional application		
	00/100,50/		!	10,20,70	serial nu	mbers are listed on a		
					supplem attached	ental priority data sheet		
					attacticu	1101010.		
					1			
						:		

Declaration and Power of Attorney for Utility or Design Patent Application

Serial No.: 09422,999

Page 2 of 3



DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c), of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112. Lacknowledge the duty to disclose information which is

material to patentability as defined in	37 CFR 1.56 which became		between the filing date of the prior app		
international filing date of this applic					
U.S. Parent Application o			arent Filing Date	Parent Patent Number	
Serial Number	r	(MM/DD/YYYY)	(if applicable)	
Additional U.S. or PCT internation	onal application numbers are	listed on a	a supplemental priority data sheet attac	hed hereto.	
As a named inventor, I hereby appoin	it the following registered pra	actitioners	to prosecute this application and to tra	insact all business in the Patent	
and Trademark Office connected ther	ewith: Customer Num	ber		Place Customer	
	OR	ļ	\rightarrow	Number Bar Code	
	= * * *	titioner(s	s) name/registration number listed l	Label Here	
	Registration			Registration	
Name	Number		Name	Number	
Steven M. Bauer	31,481		Thomas C. Meyers	36,989	
John V. Bianco	36,748		Joseph B. Milstein	42,897	
Isabelle A.S. Blundell	43,321		David G. Miranda	42,898	
Maureen A. Bresnahan	P-44,559		Ronda P. Moore	44,244	
Michael H. Brodowski	41,640		Edmund R. Pitcher	27,829	
Jennifer A. Camacho	43,526		Dianne M. Rees	45,281	
Joseph A. Capraro, Jr.	36,471		Kurt Rauschenbach	40,137	
John J. Cotter	38,116		Michael A. Rodriguez	41,274	
Jennifer L. Dupre	41,722		R. Stephen Rosenholm	P-45,283	
John V. Forcier	42,545		Michael J. Schmelzer	43,093	
Michael Giannetta	42,574		J. Scott Southworth	39,382	
Duncan A. Greenhalgh	38,678		Christopher W. Stamos	35,370	
William G. Guerin	41,047		Joseph P. Sullivan	P-45,349	
Ira Heffan	41,059		Robert J. Tosti	35,393	
Danielle L. Herritt	43,670		Thomas A. Turano	35,722	
Elizabeth E. Kim	43,334		Michael J. Twomey	38,349	
Mi Kim	P-44,830		Christine C. Vito	39,061	
Douglas J. Kline	35,574		Patrick R.H. Waller	41,418	
John D. Lanza	40,060		Yin P. Zhang	44,372	
Timothy P. Linkkila	40,702				
Kurt W. Lockwood	40,704				
Marianne McLaughlin	42,870				
Additional registered practition	ners named on supplemen	ıtal Regis	stered Practitioner Information shee	et attached hereto.	
Direct all correspondence to:	Patent Administrate Testa, Hurwitz & T High Street Tower 125 High Street Boston, MA 02110 Tel. No.: (617) 248 Fax No.: (617) 248	hibeault,) -7000	LLP		

Declaration and Power of Attorney for Utility or Design Patent Application Serial No.:

Page 3 of 3



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

								
Name of Sole or First I	Inventor:		A p	etition has be	en filed fo	or this unsigne	ed inventor	
Given Na	me (first and mid	dle [if any])			Fa	amily Name or	r Surname	
Hiroaki				Kawasaki				
Inventor's Signature			L			Date		
Street Address	3-20-2, Aoba					Citizenship	Japai	nese
	City	Higashi-Ku	State	Fukuoka	Zip		Country	Japan
Post Office Address								
	City		State		Zip		Country	
Additional inventor	s are being name	d on the sup	plemental	Additional In	ventor(s)) sheet(s) attacl	hed hereto.	
Name of Additional Jo				A petition	has been	filed for this u	ınsigned in	ventor
Given Na	ame (first and mi	ddle [if any])	_		F	Family Name o	or Surname	
Ann	,			Graybiel				
Inventor's Signature				_1		Date		
Street Address	Boyce Farm R	oad				Citizenship	p US	
	City	Lincoln	State	MA	Zip	01773	Country	USA
Post Office Address		1						
	City		State		Zip		Country	
Name of Additional Jo	oint Inventor, if	any:	1	A petiti	on has be	en filed for thi	is unsigned	inventor
Given Na	ame (first and mic	idle [if any])			F	amily Name o	r Surname	
David		\bigcap	i	Housman				
Inventor's Signature	Dor	MAMIA	no			Date		
Street Address	64 Homer Stre					Citizenship	Ī.,	
	City	Newton	State	MA	Zip	9240	Country	USA
Post Office Address			<u></u>			77	4	
	City		State		Zip	一	Country	



Applicant or Patentee: Kawasaki et al. Serial or Patent No.: 09/422,999

Attorney's Docket No.: MIT-103 (MIT Case #8251)

Filed or Issued: 10/22/99

For: Genes Integrating Signal Transduction Pathways

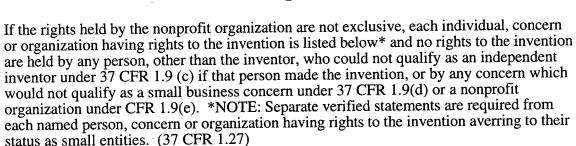


VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

	OF ORGANIZATION: Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, MA 02139
TYPE (OF ORGANIZATION
(X)	UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION
	TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) and 501(c) (3))
()	NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA (NAME OF STATE) (CITATION OF STATUTE)
()	WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) and 501(c) (3)) IF LOCATED IN THE UNITED STATE OF AMERICA
()	WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA (NAME OF STATE) (CITATION OF STATUTE)
organiz	declare that the nonprofit organization identified above qualifies as a nonprofit ation as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under 41(a) and (b) of Title 35, United States Code with regard to the invention entitled integrating Signal Transduction Pathways by inventor(s) Kawasaki et al. described
()	the specification filed herewith.
(x)	application serial no. <u>09/422,999</u> , filed <u>10/22/99</u> .
()	patent no, issued
I hereb	y declare that rights under contract or law have been conveyed to and remain with

the nonprofit organization with regard to the above identified invention.



NAME	
ADDRESS	INESS CONCERN ()NONPROFIT ORGANIZATION
NAME	1,255 001,0214 ()2.1111
ADDRESS	
OINDIVIDUAL ()SMALL BUS	SINESS CONCERN () NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING

Jarmila Z. Hrbek

TITLE IN ORGANIZATION

Patent Administrator and Office Manager, Technology Licensing Office

ADDRESS OF PERSON SIGNING

77 Massachusetts Avenue, Room NE25-230 Cambridge, MA 02139

DATE 1/20/2000